International Application No
PCT/IB2004/002351

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07K14/285							
IPC 7							
	o International Patent Classification (IPC) or to both national classifica	tion and IPC					
B. FIELDS SEARCHED Minimum documentation reached (cl., c./v. d. = system followed by characters on symboly)							
IPC 7 C07K							
Documenta	tion searched other than minimum documentation to the extent that su	ich documents are included in the fields searc	hed				
	ata base consulted during the international search (name of data bas	,					
EPO-In	ternal, BIOSIS, EMBASE, WPI Data, PA	IJ					
C. DOCUMI Category °	ENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the rele	2001 2000000					
Category	Citation of occurrent, with indication, where appropriate, or the rele	vant passages	Relevant to claim No.				
Х	 SMOOT LAURA M ET AL: "Genomic ar	nalvsis of	1-13				
	the F3031 Brazilian purpuric feve	er clone	1 13				
	of Haemophilus influenzae biogroup aegyptius by PCR-based subtractive						
	hybridization"	,,,					
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	2694-2699, XP002317587	o), pages					
	ISSN: 0019-9567						
	cited in the application abstract						
	page 2696; table 2		·				
	page 2698, right-hand column, par	ragraphs					
	2,3						
Α	WO 94/00149 A (MICROCARB INC)		1-13				
	6 January 1994 (1994-01-06) the whole document						
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X Further documents are listed in the continuation of box C.							
° Special categories of cited documents : "T" later document published after the international filing date							
"A" document defining the general state of the art which is not considered to be of particular relevance or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention							
"E" earlier document but published on or after the international filling date "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to							
"L" document which may throw doubts on priority claim(s) or involve an inventive step when the document is taken alone which is cited to establish the publication date of another "V" document of particular relevance; the publication date of another "V" document of particular relevance; the publication date of another "V" document of particular relevance; the publication date of another "V" document of particular relevance; the publication date of another "V" document of particular relevance; the publication date of another "V" document of particular relevance; the publication date of another "V" document of particular relevance; the publication date of another "V" document of particular relevance; the publication date of another "V" document of particular relevance; the publication date of another "V" document of particular relevance; the publication date of another "V" document of particular relevance; the publication date of another "V" document of particular relevance; the publication date of another "V" document of particular relevance; the publication date of another "V" document of particular relevance; the publication date of another "V" document of particular relevance; the publication date of another "V" document of particular relevance; the publication date of particular relevance; the publication date of particular relevance; the publication date of particular relevance is the publication of the publication date of particular relevance is the publication of the publication date of particular relevance is the publication of the publication date of particular relevance is the pu							
"O" document referring to an oral disclosure, use, exhibition or cannot be considered to involve an inventive step when the document is combined with one or more other, such document							
other means ments, such combination being obvious to a person skilled in the art.							
		"&" document member of the same patent fam	<u> </u>				
Date of the actual completion of the international search Date of mailing of the international search report							
1.	4 February 2005	3 0. 06. 2005					
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 Authorized officer							
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,	Cont					
	Fax: (+31-70) 340-3016	Grötzinger, T					

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six major outer membrane proteins from Actinobacillus actinomycetemcomitans" GENE: AN INTERNATIONAL JOURNAL ON GENES AND GENOMES, ELSEVIER SCIENCE PUBLISHERS, BARKING, GB, vol. 288, no. 1-2, 17 April 2002 (2002-04-17), pages 195-201, XP004358912 ISSN: 0378-1119 the whole document A HOICZYK EGBERT ET AL: "Structure and sequence analysis of Yersinia YadA and Moraxella UspAs reveal a novel class of adhesins" EMBO (EUROPEAN MOLECULAR BIOLOGY ORGANIZATION) JOURNAL, vol. 19, no. 22, 15 November 2000 (2000-11-15), pages 5989-5999, XP002317588 ISSN: 0261-4189 cited in the application	А	COMANDUCCI, MAURIZIO; CHIRON SRL) 6 February 2003 (2003-02-06)		1-13			
sequence analysis of Yersinia YadA and Moraxella UspAs reveal a novel class of adhesins" EMBO (EUROPEAN MOLECULAR BIOLOGY ORGANIZATION) JOURNAL, vol. 19, no. 22, 15 November 2000 (2000-11-15), pages 5989-5999, XP002317588 ISSN: 0261-4189 cited in the application	A	six major outer membrane proteins from Actinobacillus actinomycetemcomitans" GENE: AN INTERNATIONAL JOURNAL ON GENES AND GENOMES, ELSEVIER SCIENCE PUBLISHERS, BARKING, GB, vol. 288, no. 1-2, 17 April 2002 (2002-04-17), pages 195-201, XP004358912 ISSN: 0378-1119		1-13			
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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claim 13 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-6 (partially), 7, 8-13 (partially)
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-6 (partially), 7, 8-13 (partially)

Antigen shown in SEQ ID NO:51 and embodiments involving the use thereof.

2. claims: 1-6 (partially), 8-13 (partially)

Antigen shown in SEQ ID NO:1 and embodiments involving the use thereof.

3. claims: 1-6 (partially), 8-13 (partially)

Antigen shown in SEQ ID NO:2 and embodiments involving the use thereof.

4. claims: 1-6 (partially), 8-13 (partially)

Antigen shown in SEQ ID NO:3 and embodiments involving the use thereof.

5. claims: 1-6 (partially), 8-13 (partially)

6. claims: 1-6 (partially), 8-13 (partially)

Antigen shown in SEQ ID NO:5 and embodiments involving the use thereof.

7. claims: 1-6 (partially), 8-13 (partially)

Antigen shown in SEQ ID NO:6 and embodiments involving the use thereof. $\,$

8. claims: 1-6 (partially), 8-13 (partially)

Antigen shown in SEQ ID NO:7 and embodiments involving the use thereof.

9. claims: 1-6 (partially), 8-13 (partially)

Antigen shown in SEQ ID NO:8 and embodiments involving the use thereof.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

10. claims: 1-6 (partially), 8-13 (partially)

Antigen shown in SEQ ID NO:9 and embodiments involving the use thereof.

11. claims: 1-6 (partially), 8-13 (partially)

Antigen shown in SEQ ID NO:10 and embodiments involving the use thereof.

12. claims: 1-6 (partially), 8-13 (partially)

Antigen shown in SEQ ID NO:11 and embodiments involving the use thereof.

13. claims: 1-6 (partially), 8-13 (partially)

Antigen shown in SEQ ID NO:12 and embodiments involving the use thereof. $\,$

14. claims: 1-6 (partially), 8-13 (partially)

15. claims: 1-6 (partially), 8-13 (partially)

Antigen shown in SEQ ID NO:14 and embodiments involving the use thereof.

16. claims: 1-6 (partially), 8-13 (partially)

17. claims: 1-6 (partially), 8-13 (partially)

Antigen shown in SEQ ID NO:16 and embodiments involving the use thereof.

18. claims: 1-6 (partially), 8-13 (partially)

Antigen shown in SEQ ID NO:17 and embodiments involving the use thereof.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

19. claims: 1-6 (partially), 8-13 (partially)

Antigen shown in SEQ ID NO:18 and embodiments involving the use thereof. $\ \ \,$

20. claims: 1-5 (partially), 8-13 (partially)

Antigen shown in SEQ ID NO:54 and embodiments involving the use thereof.

Inter nal Application No PCT/IB2004/002351

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